

CLAIMS:

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1. A measurement unit adapted to be used in a measuring setup for measuring an optical device under test – DUT–, comprising:

5 an optical circuit with one or more optical components showing high susceptibility to mechanical noise, wherein the optical circuit is adapted to provide optical signals from and/or to the DUT for measuring the DUT, and

a shielding unit adapted for receiving the optical circuit and for providing at least a partial shielding of the optical circuit against mechanical noise.

- 10 2. The measurement unit of claim 1, wherein the shielding unit is provided with relatively high weight, thus rendering the shielding unit less susceptible to be excited by mechanical vibrations.

3. The measurement unit of claim 2, wherein the shielding unit weighs substantially more than the optical circuit.

- 15 4. The measurement unit of claim 1, wherein the shielding unit comprises a mass plate or is provided of a material massive relative to the optical circuit or the one or more optical components.

5. The measurement unit of claim 1, wherein the shielding unit comprises an upper and a lower casing part.

- 20 6. The measurement unit of claim 1, wherein the optical circuit is attached to at least one part of the shielding unit.

- Sub Az > ~~7. The measurement unit of claim 6, wherein a vibration damping or shielding device, preferably a rubber sheet, is provided between the optical circuit and the shielding unit.~~

- 25 8. The measurement unit of claim 1, wherein the optical circuit comprises at

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least one interferometer.

9. The measurement unit of claim 1, further comprising a receiving device adapted to receiving the DUT at least during the measurement.

5 10. The measurement unit of claim 9, wherein the receiving device is coupled to the shielding unit in a way that the shielding unit provides at least a partial shielding of the DUT against mechanical noise.

Sub A3
11. ~~The measurement unit of claim 9 or 10, wherein the receiving device is provided outside the shielding unit, preferably on top thereof~~

10 12. The measurement unit of claim 1, further comprising at least one vibration absorption device for absorbing vibrations of the shielding unit.

13. The measurement unit of claim 12, wherein the at least one vibration absorption device comprises an arrangement of resilient and plastic members for damping and absorbing mechanical vibrations.

Sub A4
14. ~~The measurement unit of claim 1, wherein the optical circuit comprises only such optical, electrical or mechanical components substantially providing no own vibration at least during measuring times.~~

15. A measuring setup for measuring an optical device under test – DUT-, comprising:

20 an optical signal source adapted for applying an optical signal to the DUT, and

an optical receiver unit adapted for measuring a response of the DUT on the applied signal, and

a measurement unit according to any one of the above claims, being coupled between the optical signal source and the optical receiver unit.